

Delivering faster, more reliable, secure connections

## Sun™ Crypto Accelerator 1000 Board

### HIGHLIGHTS

- Supports iPlanet™ 4.1 SP9, 6.0 SP1, and Apache 1.3.12
- Supports Solaris™ Operating Environment 8 7/01
- Supports PCI
- Performs over 4,000 ops/sec per board
- Features Hardware Random Number Generator (RNG)
- Provides 2,048-bit RSA encryption
- Reduces the number of time-outs on initial Web server connections
- Off-loads system processor for other critical tasks
- Up to 500 Mbps 3DES bulk encryption on Apache

If you are running a secure e-commerce site using SSL, the Sun Crypto Accelerator 1000 board is the answer to significantly improving your server performance. As a co-processor solution, it off-loads and speeds up the SSL session establishment operation and manages unexpected peak server loads while delivering faster transactions to clients than systems not equipped with an accelerator board. The faster and larger the number of connections established, the more reliable the connection, resulting in a better, more consistent user experience. This board also delivers 500 Mbps bulk encryption performance providing additional

benefit to those customers using 3DES for bulk encryption.

Running up to 4,000 operations-per-second and processing up to 2,048-bit RSA public key transactions, the Sun Crypto Accelerator 1000 board improves server response times and increases the number of clients the server can support simultaneously. Fully scalable, multiple Sun Crypto Accelerator 1000 cards can be stacked to increase performance and handle high-peak loads. The board plugs easily into the PCI slot in your server and installs seamlessly into a Sun™ server platform being deployed as a Web server.



# SUN CRYPTO ACCELERATOR 1000 SPECIFICATIONS

## OPERATING SYSTEMS

Solaris 8 7/01 and subsequent revisions within Solaris 8

## PROTOCOL

SSL (Secure Sockets Layer)

## CRYPTOGRAPHIC FUNCTIONS

Modular exponentiation functions, including D-H, DSA, RSA, and raw modular

## EXPONENTIATION

RSA Public Key w/CRT key lengths of 512 bit to 2048 bit

RSA 1024 bit private key w/CRT—over 4000 ops/sec

DSA 1024 bit public key, 160 private key—up to 5400 ops/sec

3DES bulk encryption—up to 500Mbit/sec

True random number generation—up to 125Kbytes/sec

## PCI ADAPTER

33-66 MHz, 32-64 bit

PCI 2.2 Spec compliant

## REGULATORY STANDARDS CERTIFICATION

ESD & RF Immunity requirements of EN550082-1 & Sun spec 990-1151

CISPR 22 (1993)/EN 55022 (1994): Class B; International

FCC/47CFR Part 2 Class A; United States

CISPR 22/VCCI Class II Registered; Japan

FCC Class A/EN55022, VCCI, Japanese Voluntary Control Council for interface, Class 1 FCC flammability (94v-0)

## ENVIRONMENT

**Operating** 0° C to 70° C

**Nonoperating** -65° C to 150° C

**Humidity** 5% to 85% relative humidity, noncondensing

**Power/Power dissipation** Under 11 W maximum

## DIMENSIONS

**Width** 106.6 mm (4.2 in.)

**Depth** 174.6 mm (6.875 in.)

**HEADQUARTERS** SUN MICROSYSTEMS, INC., 901 SAN ANTONIO ROAD, PALO ALTO, CA 94303-4900 USA

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